**California University of PA**

**Dept. of Computer Science, Info Systems, and Engineering Technology**

**ACSC 455 Structures of Programming Languages**

**Spring 2023**

**= Homework =**

**Assignment 6**

**Andrew Bissell**

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**Question 1:**

Consider the following program written in C syntax:

For each of the following parameter-passing methods, what are the values of the list array after execution? Briefly explain. – Passed by value – Passed by reference – Passed by value-result

Text

Description automatically generated

**Answer 1:**

Passed by value

list[0] = 1

list[1] = 3

The function will receive a copy of the data and use it for its calculation, so the original data is not altered by the function.

Passed by reference

list[0] = 2

list[1] = 6

The function will receive the data’s location and the function will be able to alter the original data, this could be a problem the programmer does not want this to happen.

Passed by value-result

list[0] = 2

list[1] = 6

The function will receive a copy of the original data and then the function will send back a copy of the processed data to the original data altering it just like pass by reference.